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# Version Description Document

# for the

# Enhanced Linked Virtual Information System (ELVIS)

# Version 1.4.0.1

**(for UB 3.0.1.6GP4)**

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## SYSTEM OVERVIEW

The Enhanced Linked Virtual Information System (ELVIS) provides a capability to view tactical information in geographic plots and tabular displays resident in a Global Command and Control System (GCCS) host system using a commercial web browser compatible with HyperText Markup Language (HTML) version 3.2, as implemented in the popular browsers. ELVIS software runs on a GCCS host as a group of background processes and does not interfere with normal workstation operations (except for an additional CPU load when servicing browser requests).

ELVIS allows the user to plot selected track data and tactical overlays on high resolution maps. The user can perform a family of query and map manipulation operations, such as track hook, map zoom, and range/bearing calculations. System administration utilities are provided to configure and tune ELVIS. For security, a user login is required to gain access to the tactical information.

## APPLICABLE DOCUMENTS

ELVIS System Administrator's Manual (ELVIS 1.4.0.1:SAM.1 4/30/97)

C   ELVIS Software User's Manual (ELVIS 1.4.0.1:SUM.1 4/30/97)

C   Installation Procedures for ELVIS (ELVIS 1.4.0.1:IP.1 4/30/97)

## 3.   VERSION DESCRIPTION

### 3.1    Inventory of Materials Released

C   <u>Magnetic media</u>: ELVIS 1.4.0.1 Segment for HP-UX 9.07 or Solaris 2.3 operating system, UB version 3.0.1.6GP4, on 4mm DAT tape intended for the TAC-3/4 or SPARC 5/20 hardware environments.

C   *Version Description Document for the Enhanced Linked Virtual Information System (ELVIS) Version 1.4.0.1.*( ELVIS 1.4.0.1:VDD.1, 4/30/97).

C   ELVIS uses the httpd web daemon from CERN and is subject to its shareware copyright restrictions.

## 3.2    Software Changes

The following changes have been made to enhance ELVIS 1.3.2 to version 1.4.0.1:

**1.** An Air Tasking Order (ATO) capability is available, based on the ATOX+ component of UB. ATOs can be plotted on the ELVIS geographic chart, while textual data about the ATO is presented in a hyper-text format.

2. The user can select one of four different display sizes (if configured by the system administrator). Specifically, the four resolutions are tiny (200x100), small (400x300), medium (600x450), and large (800x600).

3. A TINY resolution (200x100) was added to the previous small, medium, and large resolutions to yield faster response to mapping requests for users with limited bandwidth.

4. A capability was added for a system administrator to "plug in" modules to provide Status of Forces (SOF) data. Specifically, the SOF options for SORTS, CASREP, MOVREP, and EMPSKD can be modified to access any CGI program.

5. The FRAMES tag has been implemented for use with Netscape Navigator (version 3.0 and higher) to improve the presentation for combined geographical and textual data. Due to problems with support for JavaScript in Microsoft's Internet Explorer (all versions), the FRAMES capability is not yet available for this web browser.

6. The ELVIS system administrator may select which UB Briefs are to be made available to ELVIS users.

7. The VCC (Virtual Command Center) GIF has been improved to provide a more modern appearance.

# 4.    INSTALLATION INSTRUCTIONS

Refer to the *Installation Procedures for the Enhanced Linked Virtual Information System (ELVIS) Version 1.4.0.1* for installation instructions.

# 5.    KNOWN PROBLEMS, ERRORS, AND DESIGN CONSTRAINTS

Additional information regarding trouble-shooting procedures can be found in the ELVIS System Administrator's Manual.

1. Link-11 tracks are plotted, but the user access the complete Link-11 data profile (available in UB).

2. The "show map coverage" option does not display coverage rectangles for CIB map products.

3. A user must be logged into the ELVIS server.

4. On a dual-eye HP hardware configuration, the first user to log in must remain logged in for ELVIS to continue servicing browser requests. Testing has not been performed on systems with more than two eyes.

5. At the end of an ELVIS installation, the text string ".domainame" may be displayed to the installer as part of the ELVIS URL; it should be replaced with the siteÕs domain. The URL should be distributed to all prospective users.

6. The number of users per ELVIS host is limited to 1000.

7. The user account options for priority and read-only/read-write are not implemented.

8. Declutter of track data around the edges of the tactical display may be incomplete, i.e., track labels may overlap.

9. During installation (or re-installation), the file  is not preserved. Hence the system administrator must reset the desired values for GIF resolution sizes and desired CGIs for access to NSOF data.

10. The following two conditions occur (by design in order to improve system performance) when more than 250 contacts are displayed:

    a. No track symbols are active but all displayed track name labels are active (and declutter will limit the number of labels).

    a. The UNIT option will only provide a list of tracks whose labels are displayed. For example, a "whole world" display of 1,500 tracks will have no "hot" track symbols but may have 50 "hot" track name labels. In this case, the UNIT option provides a list of the 50 tracks with name labels. For a complete listing of all tracks, use the FIND option with an asterisk in the NAME field.

1. The behavior of Netscape Navigator and Microsoft Internet Explorer may be different due to different levels of support/compliance with web-based protocols and HTML specifications/extensions.

1. The introduction of the FRAME tag has created several problems which are inherent in the use of frames.  For example, when the CUSTOM MAPS or PLOT CONTROL option is selected, the associated display control page is loaded into a frame other than the frame containing the tactical map GIF. If the map is changed, the display control page is still pointing at the previous map GIF, so changing display settings will cause the previous map GIF to be displayed. Another problem associate with FRAMES is that if two users are accessing ELVIS via the same user account, map draw operations requested by the two users may conflict.

2. Due to the implementation of the ACTION tag, the capability to change the size of the tactical map GIF can only be "activated" by using one of the selections from the MAP

OPTIONS pull-down.  For example, if the users changes the setting for the map size (via the pull-down menu), then the CENTER or ZOOM options will cause the map GIF to be resized.  The options in the toolbar (e.g., 2X or 4X) will not change the map size.

3.  ATOX Plus, Version 1.1, must be installed.